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ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH

FOR THE EPPING RURAL DISTRICT FOR THE YEAR 1945.

GENERAL STATISTICS

Area	34,856 acres
Resident Population Mid 1945 (Estimated) ...	15,470
Number of Inhabited Houses (end of 1945) according to Rate Books	4,910
Rateable Value	£93,865
Sum represented by a Penny Rate	£367

Rainfall for the Year:-

	1945
January	1.93
February	1.31
March	1.02
April	.54
May	1.71
June	2.02
July	3.12
August	1.56
September	1.1
October	3.09
November	.37
December	2.43
	20.20

EXTRACTS FROM VITAL STATISTICS OF THE YEAR

		M.	F.	Total	Birth Rate per 1000 of the estimated resident population.
Live Births	Legitimate	121	123	261	16.87
	Illegitimate	11	6		
					Still Birth Rate per 1000 total (live and still) births
Still Births	Legitimate	1	3	5	18.79
	Illegitimate	1	-		
					Death rate per 1000 of the estimated average population
Deaths		112	112	224	14.47

Deaths from puerperal causes (Headings 29 and 30 of the Registrar General's Short List):-

	Deaths
No.29 Puerperal Sepsis	Nil
No.30 Other maternal causes	Nil

Deaths of infants under one year of age:-

	M.	F.	Total
Legitimate	5	1	8
Illegitimate	1	1	

Death Rate of Infants under one year of age:-

All Infants per 1000 live births	30.65
Legitimate Infants per 1000 legitimate live births ..	22.98
Illegitimate Infants per 1000 illegitimate live births ..	118.47
Deaths from Cancer (all ages)	39
" " Measles (all ages)	Nil
" " Whooping Cough (all ages)	Nil
" " Diarrhœa (under 2 years of age)	Nil

Ages at which Deaths occurred:-

Under 1 year	8
1 and under 2	-
2 and under 5	3
5 and under 15	1
15 and under 25	3
25 and under 35	3
35 and under 45	11
45 and under 55	16
55 and under 65	34
65 and under 75	57
75 and upwards	88
	224

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES.

Twenty-three cases of Scarlet Fever were notified during the year. One hundred and fifty-six children were immunised against Diphtheria. There were two cases notified neither had been immunised.

W. F. ERSKINE,
Medical Officer of Health
for the Year ending December 31st 1945.

NOTIFIABLE DISEASES DURING THE YEAR

	All Ages	Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	Over 65
Scarlet Fever	23	-	-	2	1	2	13	1	2	2	-	-	-
Pneumonia	12	-	-	-	-	-	-	-	-	4	-	3	5
Diphtheria	2	-	-	-	-	-	1	-	-	-	-	1	-
Puerperal Pyrexia	1	-	-	-	-	-	-	-	-	1	-	-	-
Infective Hepatitis	12	-	-	-	-	-	-	2	-	8	2	-	-
Dysentery	10	-	1	1	-	-	3	1	-	2	1	1	-
Measles	274	4	19	20	32	27	131	28	5	4	2	2	-
Whooping Cough	23	-	5	-	2	5	10	1	-	-	-	-	-
+Malaria	5	-	-	-	-	-	-	-	-	1	4	-	-
Meningitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Totals	363	4	25	23	35	34	159	33	7	22	9	7	5

+ Contracted abroad.

TUBERCULOSIS.

Age Periods	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1	-	-	-	-	-	-	-	-
1 - 5	-	-	1	1	-	-	-	-
5 - 15	-	-	2	2	-	-	-	-
15 - 25	-	-	1	3	-	-	-	-
25 - 35	3	5	1	-	-	-	1	-
35 - 45	3	2	-	-	-	1	-	-
45 - 55	2	-	1	-	-	-	-	-
55 - 65	-	1	1	-	-	-	-	-
65 and upwards	-	1	-	-	-	-	-	-
Totals	9	9	6	6	-	1	1	-

NOTIFIABLE DISEASES DURING THE LAST FIVE YEARS

Disease	1941	1942	1943	1944	1945
Scarlet Fever	15	30	56	19	23
Diphtheria	4	3	-	-	2
Typhoid and Paratyphoid	-	1	-	-	-
Pneumonia	14	24	42	17	12
Erysipelas	6	-	5	3	-
Puerperal Fever and Pyrexia	-	1	1	2	1
Measles	511	9	298	115	274
Whooping Cough	266	30	5	101	23
Cerebro-Spinal meningitis	1	1	-	-	1
Dysentery	5	-	1	3	10
ØInfective Hepatitis	-	-	8	28	12

Ø- Became notifiable in November 1943

EPPING RURAL DISTRICT COUNCIL.

Report of the Chief Sanitary Inspector relating to the water supply in the Area.

The water undertakers for the whole of the area are the Herts & Essex Water Company, the water being derived from wells, one at Sawbridgeworth and one at Roydon, both approximately 200 ft. deep.

The quality of the water, although extremely hard, is satisfactory and chemical and bacteriological reports are appended.. Under the Herts & Essex Water Act, 1944, the Company undertake to reduce the hardness to 12½ degrees according to Clark's scale. This work however, cannot legally be asked for until a period of two years after an Order has been made in Council declared to be the day on which the emergency that was the occasion of passing the Emergency Powers Act, 1939, came to an end.

The quantity as supplied by the Company is generally sufficient but there have been difficulties inthe Barn Hill area in the Parish of Roydon and in certain parts of Nazeing, in getting an adequate supply, this being due to the insufficient size of the mains. The work to rectify this has been started at Roydon, and contracts have been placed to carry out the work at Nazeing. It is therefore hoped that this difficulty will shortly be overcome.

Eighteen samples of water were taken either from the main or from the aeration plant before being chlorinated and in every case the Analyst's report was satisfactory.

Water is not liable to plumbo-solvent action. No action has been taken in respect of any form of contamination.

Approximately 90% of the dwelling houses have a piped supply of water direct to the house. There are a few standpipes and some derive their supply from wells.

The Council has under consideration water main extensions in the following areas:-

Newmans End, Matching.
Church Road, Gt. Parndon.
Cottages, Latton Mill, Latton.
Avenue Road, Dobbs Weir, Roydon.
From Dobbs Weir to Carthagena Lock in the Parishes of Roydon and Nazeing respectively, to the Glen Faba and Riverfields Estates, Roydon.

Analyst's Reports of Specimen Samples are as follows:-

Date: 26.6.45. 11.25 a.m.
Taken from: Aerating Fountain, Pumping Station, Sawbridgeworth.

CHEMICAL RESULTS IN PARTS PER 100,000.

Appearance: Faintly opalescent with few particles of mineral debris consisting of iron oxide. Turbidity: Less than 5 parts per million, Silica Scale.

Colour:	Normal	Odour:	Nil
Reaction pH.	Neutral	Free Carbonic Acid:	3.5
Electric Conductivity at 20°C.		680	
Total Solids: 180°C.		45.0	
Chlorine in Chlorides:	2.7	Alkalinity as Calcium Carbonate:	30.5
Nitrogen in Nitrates:	0.00	Nitrates:	Absent
Hardness: Permanent	6.5		
Temporary	28.5		
Total:	35.0.		
Metals: Total iron	0.030		
In solution	0.020	Other metals absent.	
"Free Chlorine reaction"		Absent	
Free Ammonia:	0.024	Ammoniacal Nitrogen:	-
Albuminoid Ammonia:	0.0000	Albuminoid Nitrogen:	-
Oxygen absorbed in 4 hrs at 27°F:		0.010	

BACTERIOLOGICAL RESULTS.

On Agar in 3 days at 20°C.	2
1 day at 37°C.	1
2 days at 37°C.	1

The Bacillus Coli:	Present in	-	Absent in:	100 c.c.
Bacillus Welchii: (B. Enteritidis Sporogenes)	Present in	-	Absent in:	100 c.c.

Report: This sample has faint opalescence due to the presence of a trace of iron but it is not unduly turbid. The water is neutral in reaction, very hard in character but contains no excess of salinity or mineral constituents in solution. It is of high standard of organic and bacterial purity.

These results are consistent with a pure and wholesome water suitable for public supply purposes apart from slight objection that it is not quite clear and bright in appearance.

(Signed) Gordon Miles, B.Sc., F.R.I.C.
for Drs. Beale and Suckling.

Before Treatment - Bacteriological Examination.

Date: 24.4.45. 3.30 p.m.
Taken from: Aerating Fountain, Sawbridgeworth Pumping Station.

Smallest quantity of water producing acid and gas in Bile Salt Lactose Broth after 2 days incubation at 37°C. (Presumptive Bacillus Coli Test)	Present - Absent 100 c.c.
Smallest quantity of water containing the Bacillus Coli.	Present - Absent 100 c.c.
Smallest quantity of water giving the reaction of the B. Welchii (Bacillus Enteritidis Sporogenes)	Present - Absent 100 c.c.

This is a very satisfactory sample. It is clear and bright in appearance and of the highest standard of bacterial purity, indicative of a pure and wholesome water, suitable for public supply purposes.

(Signed) Charles W. Martin, F.R.I.C.
Gordon Miles, B.Sc., F.R.I.C.

After Treatment - Bacteriological Examination.

Date: 17.12.45. 3.15 p.m.
Taken from: Kitchen tap - Donum, Harlow Road, Roydon.

Number of colonies per cubic centimetre or millilitre of water growing upon Agar in 37°C. in 1 day.	0
Number of colonies per cubic centimetre or millilitre of water growing upon Agar in 37°C. in 2 days.	0
Number of colonies per cubic centimetre or millilitre of water growing upon Agar at 20°C. in 3 days.	0
Smallest quantity of water producing acid and gas in Bile-salt Lactose Broth after 2 days incubation at 37°C. (Presumptive Bacillus Coli Test)	Present - Absent 100 c.c.
Smallest quantity of water containing the Bacillus Coli.	Present - Absent 100 c.c.
Smallest quantity of water giving the reaction of the B. Welchii (Bacillus Enteritidis Sporogenes)	Present - Absent 100 c.c.

This is a very satisfactory sample. It is clear and bright in appearance and of the highest standard of bacterial purity, indicative of a pure and wholesome water suitable for drinking and domestic purposes.

(Signed) Gordon Miles, B.Sc.,F.R.I.C.

(Signed) H. J. HEELEY,

Chief Sanitary Inspector.